

FIG. 1A

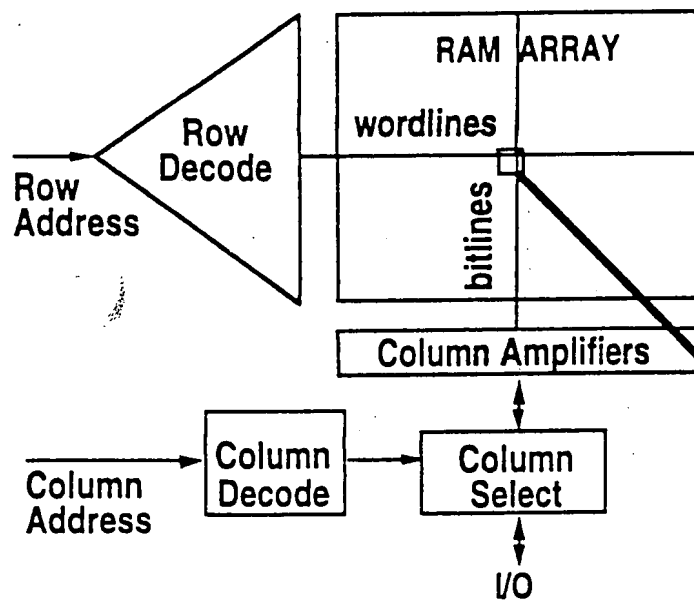


Figure 1A
(Prior Art)

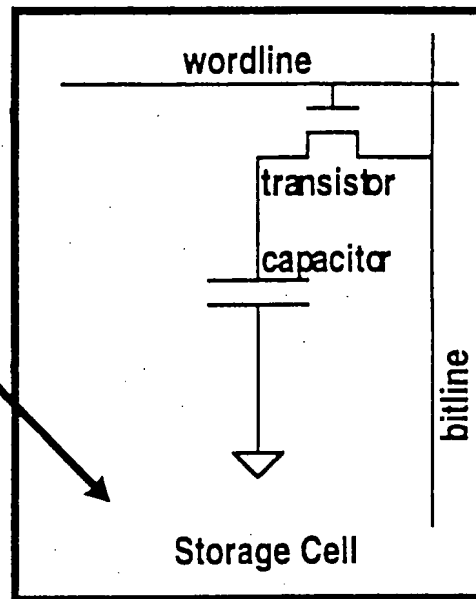


Figure 1B
(Prior Art)

TOP SECRET

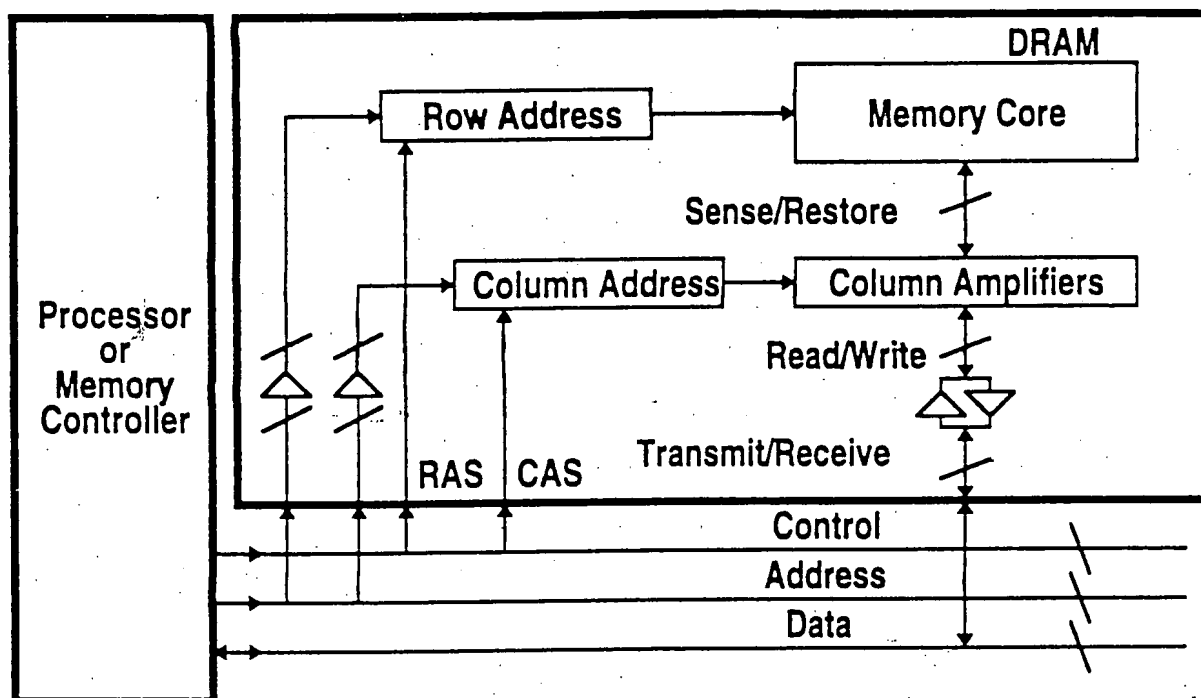


Figure 2
(Prior Art)

200001

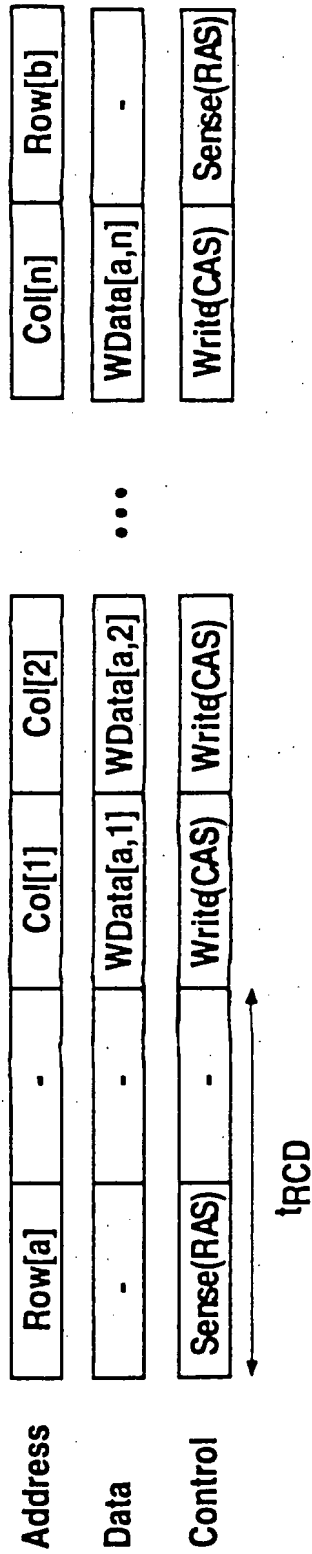


Figure 3A
(Prior Art)

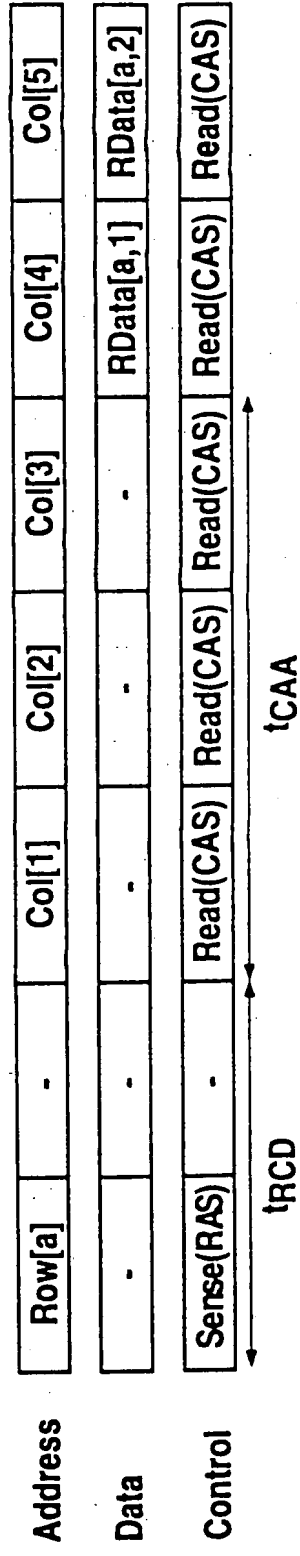


Figure 3B
(Prior Art)

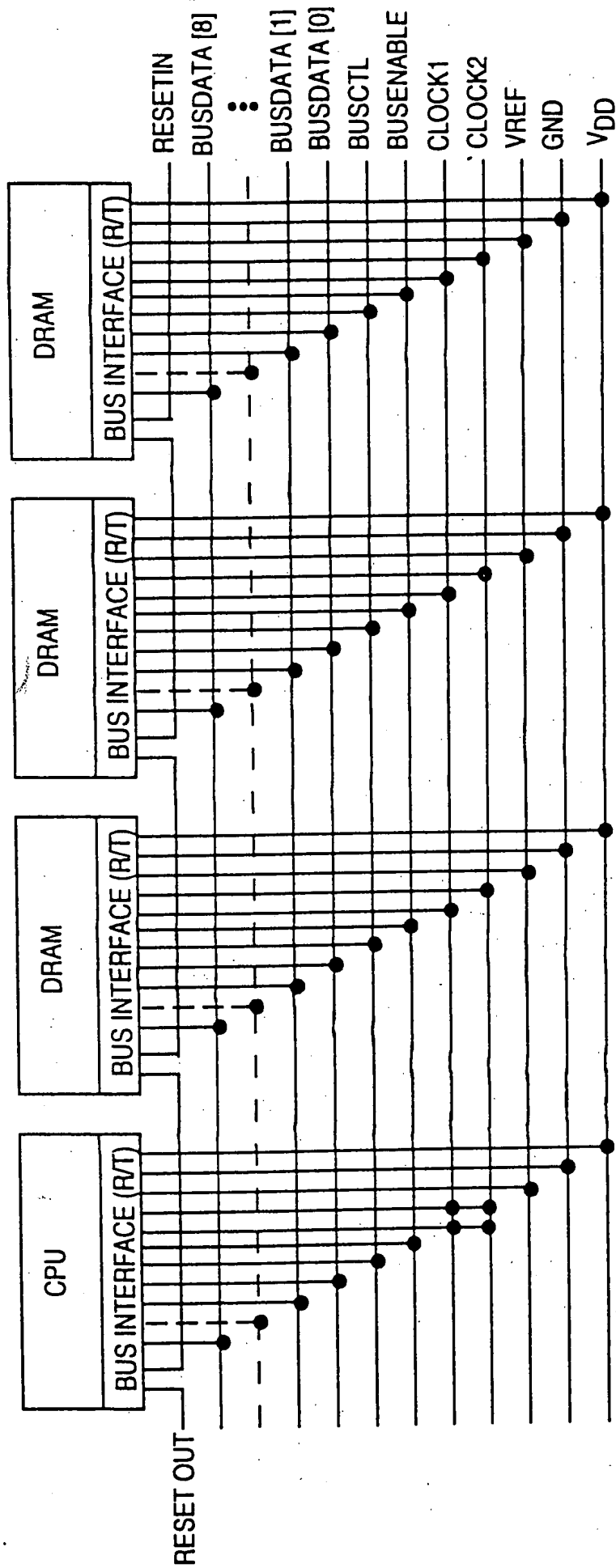


Figure 4
(Prior Art)

106250-22E02860

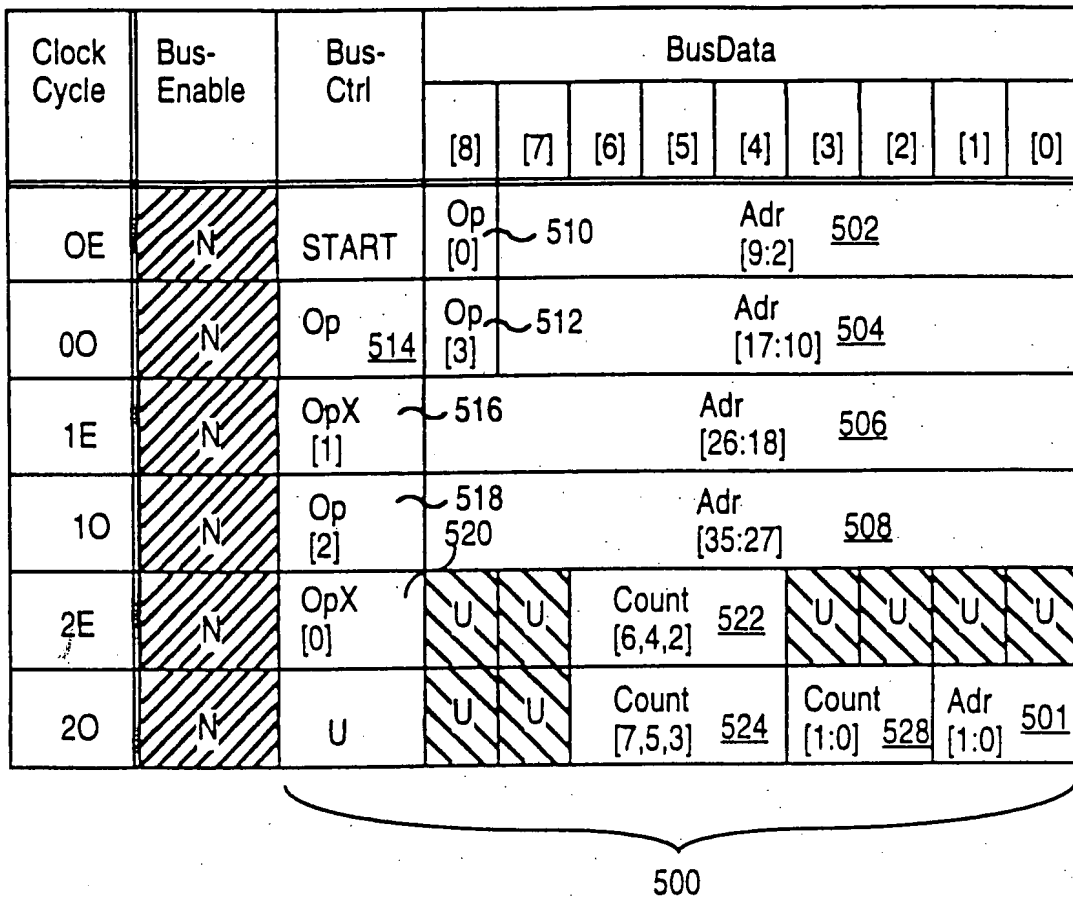
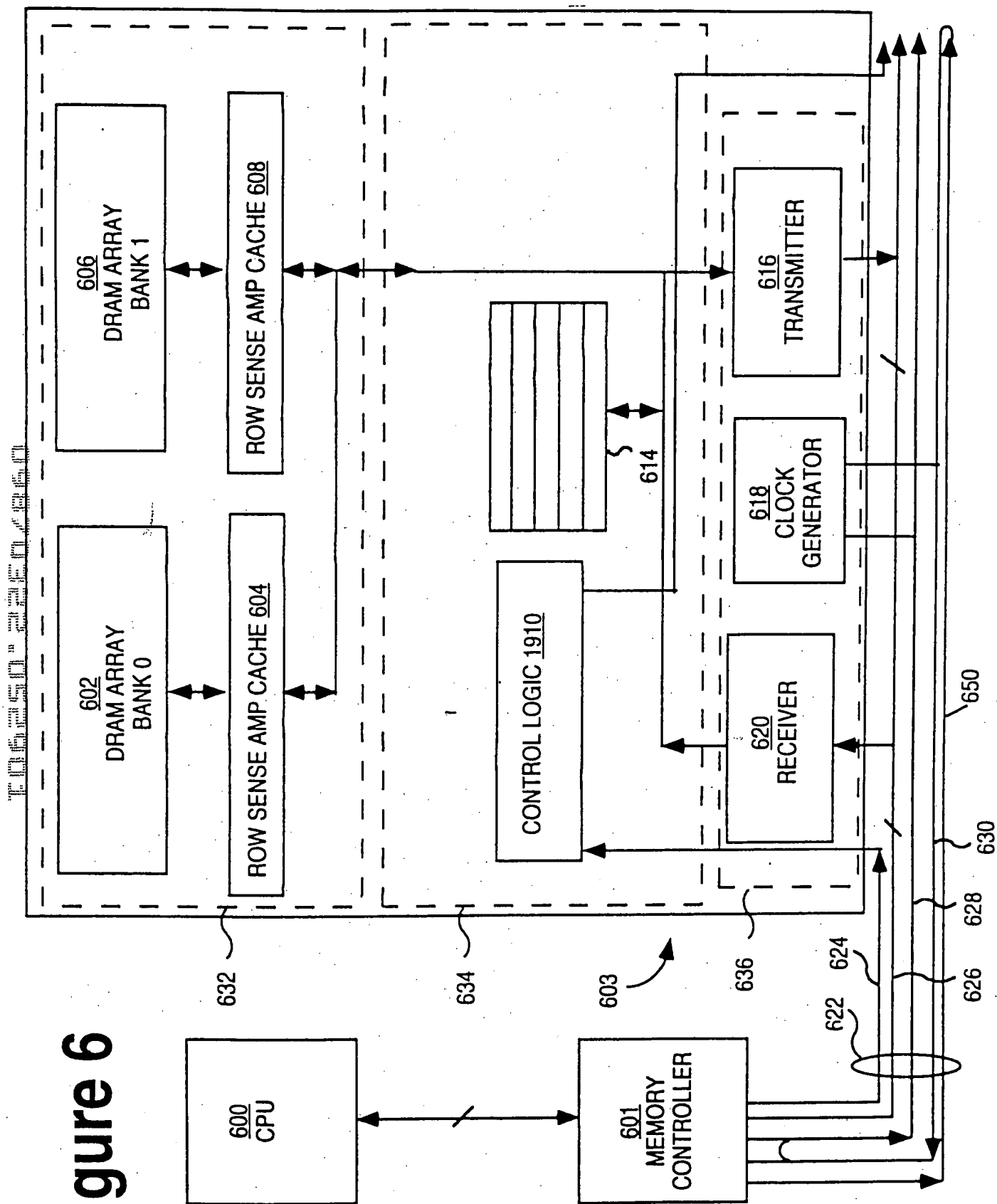


Figure 5
(Prior Art)

Figure 6



106250-2280/860

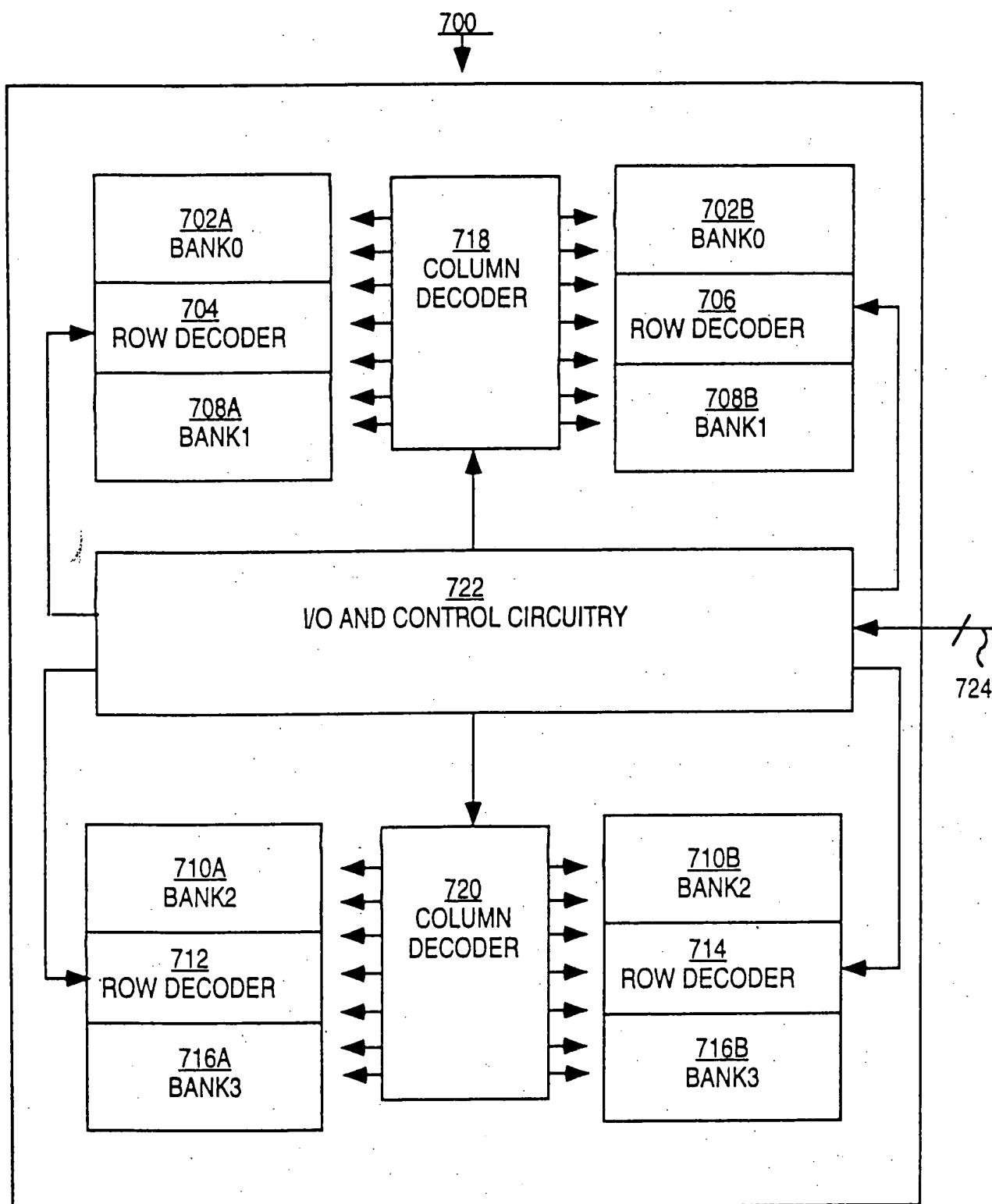


Figure 7

09870322-05901

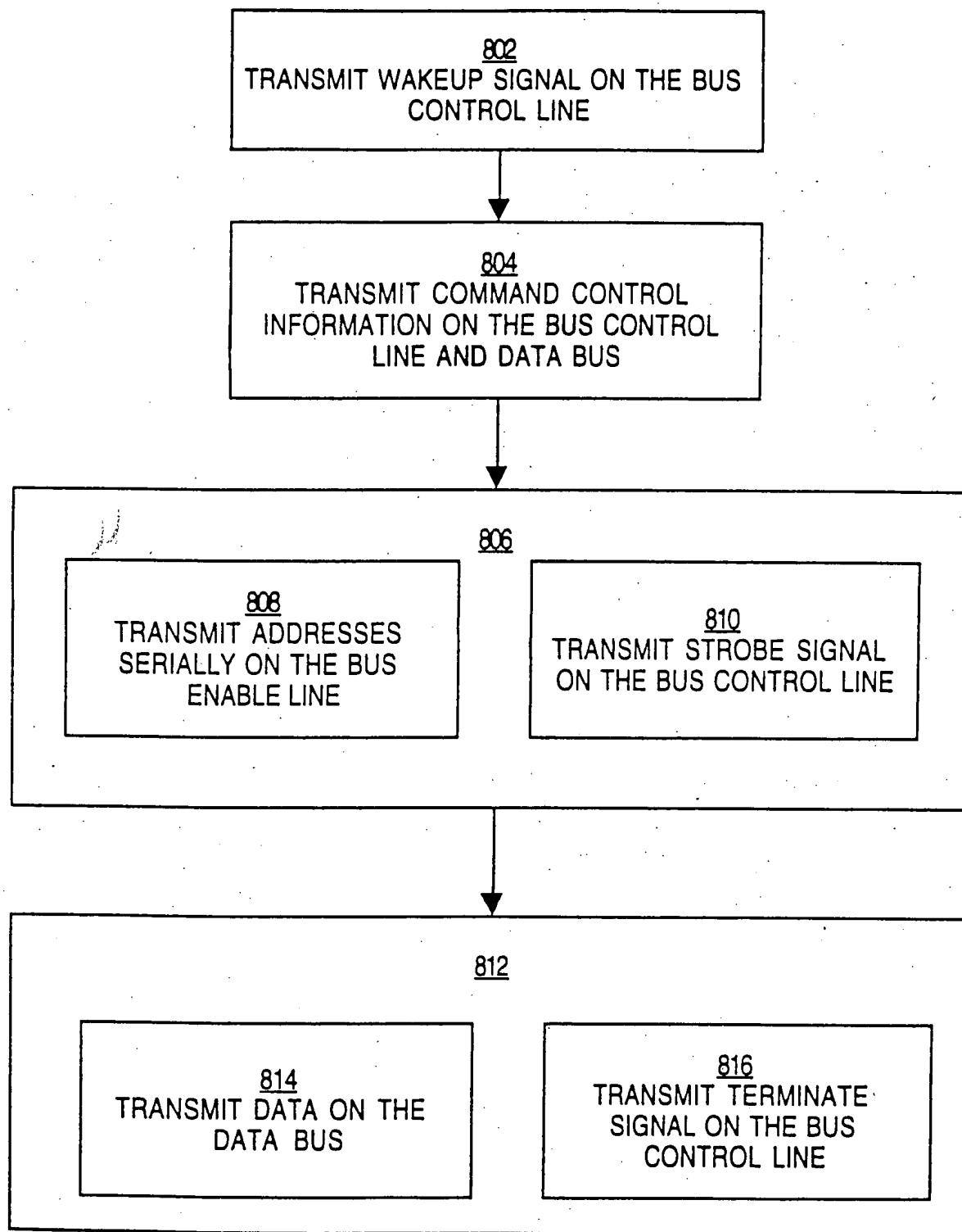


Figure 8

Clock Cycle	Bus-Enable	Bus-Ctrl	BusData									
			[8]	[7]	[6]	[5]	[4]	[3]	[2]	[1]	[0]:	
OE	N	START 902	Op[0] 'Write'	906				Adr [9:2]				904
00	N	Op[1] 'Reg' 908	Op[3] 'Bcst'	912				Adr [17:10]				
1E	N	OpX[1]	Adr [26:18]									
10	N	Op[2] 'NoByteM' 910	Adr [35:27]									
2E	N	OpX[0]	U	U	U	EvalCC	Open	Close	Pend [2:0]			
20	N	U	U	Mask [7:0];								

904

Figure 9

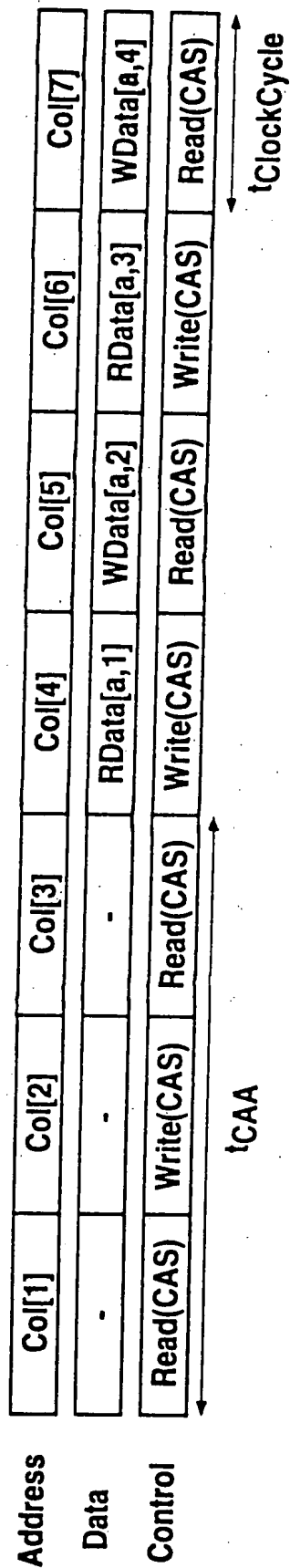


Figure 10
Prior Art

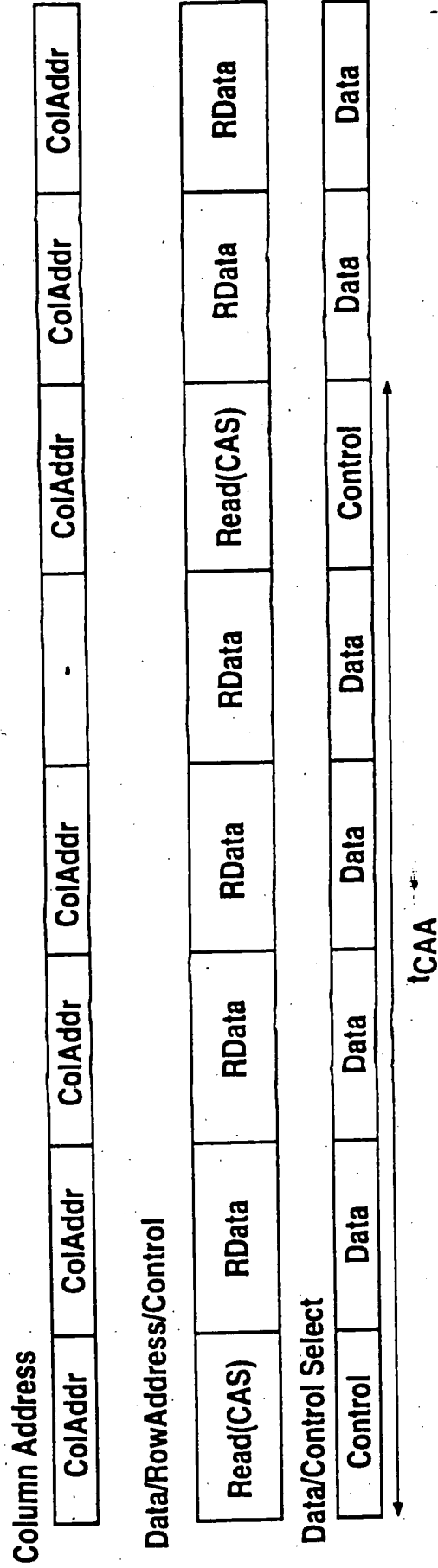


Figure 11
Prior Art

Figure 12

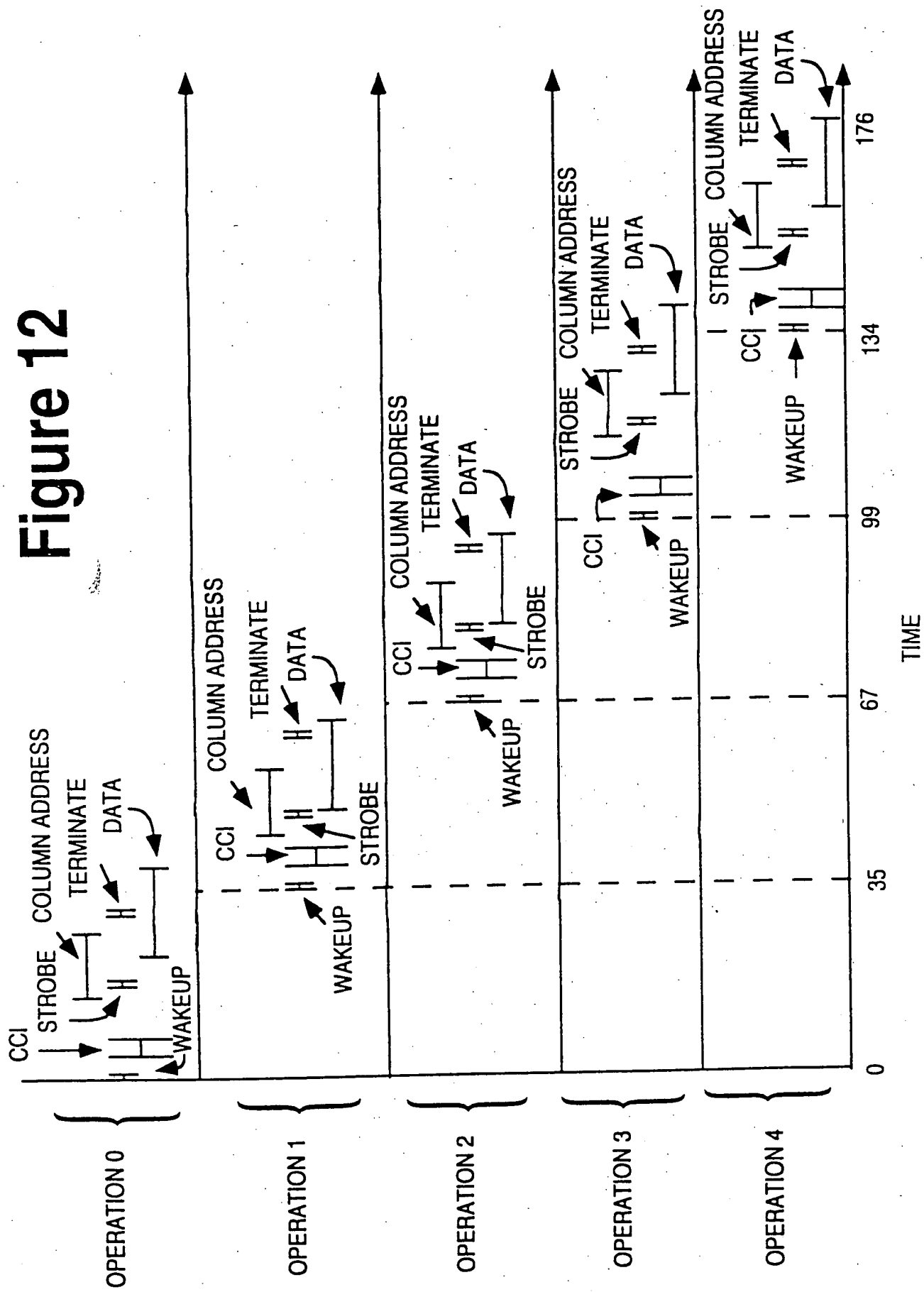
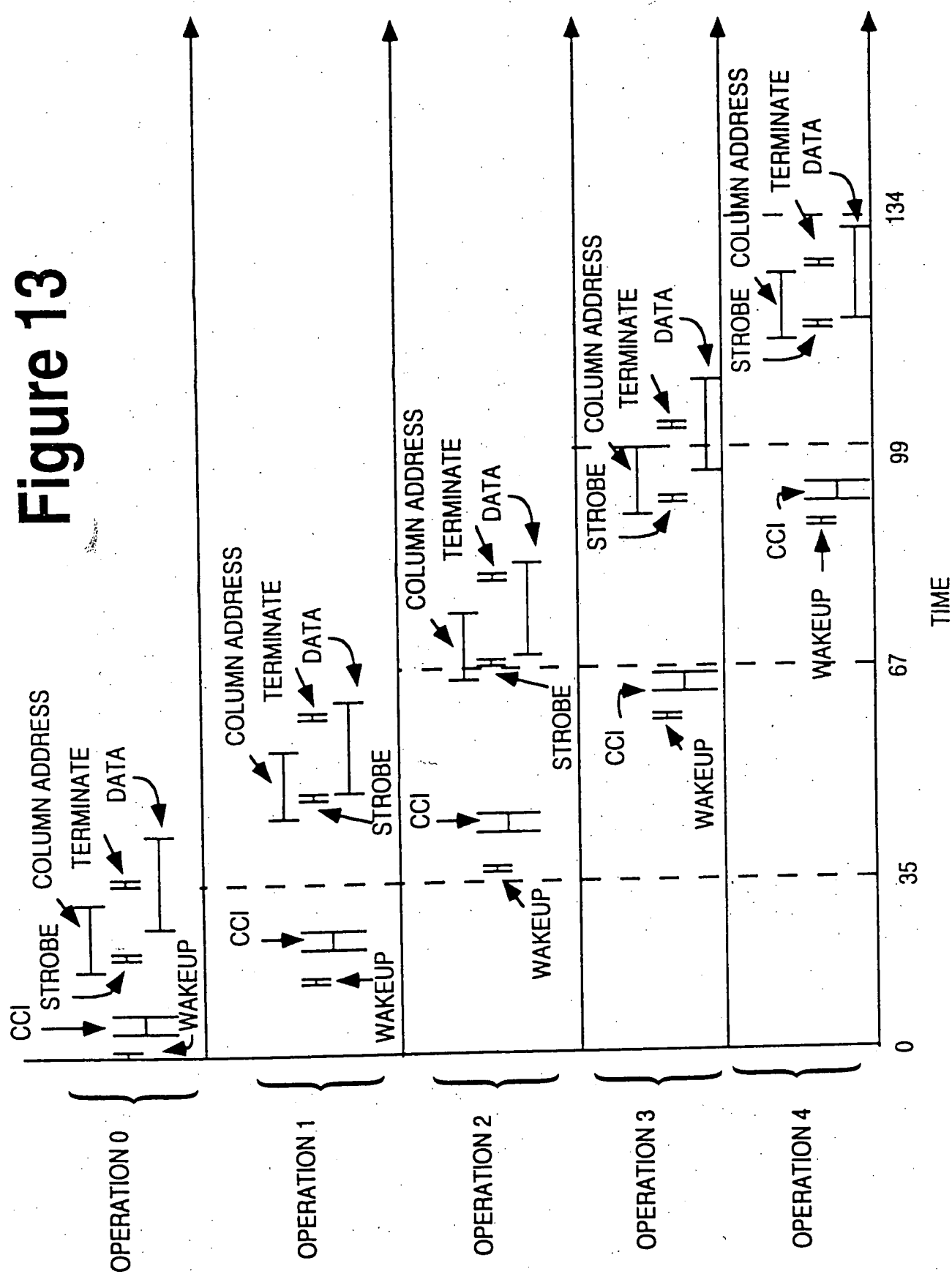


Figure 13



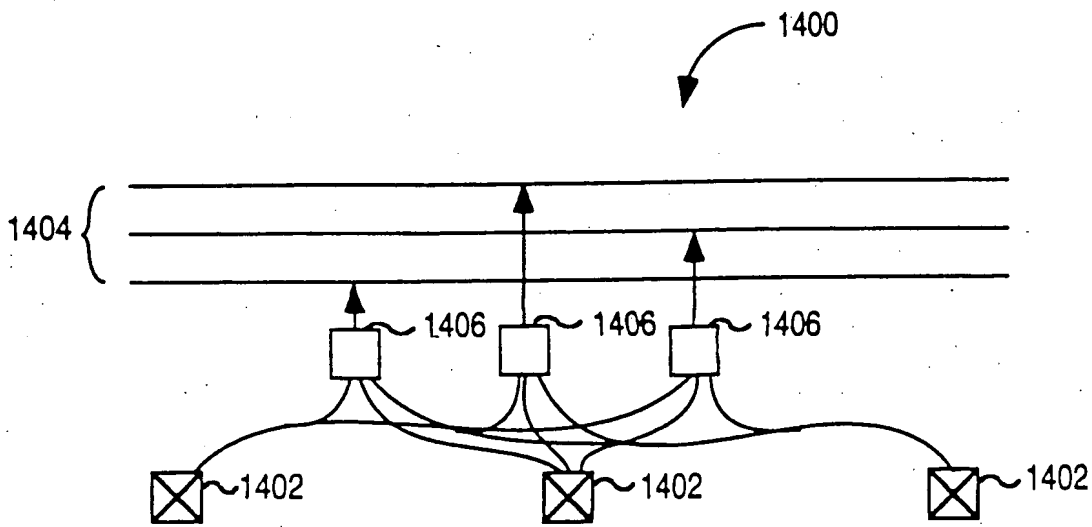
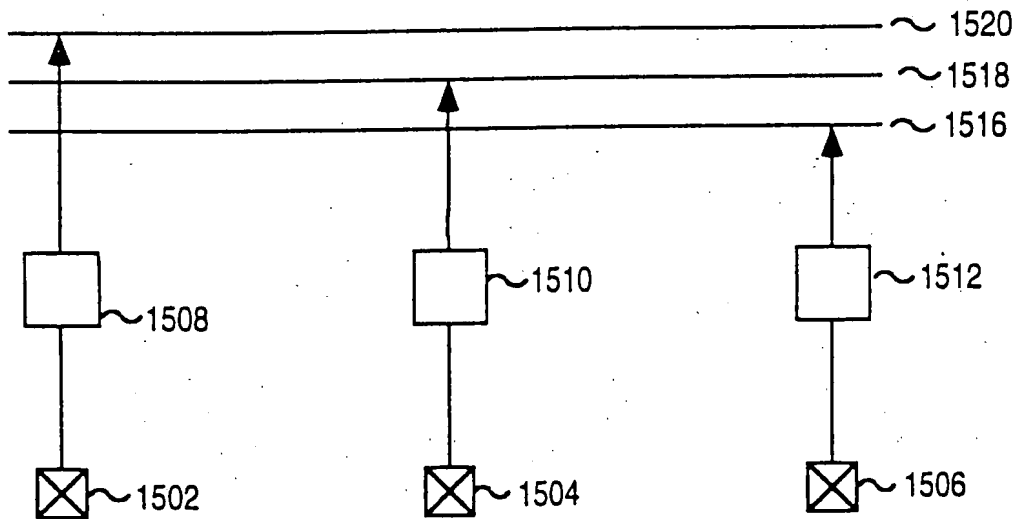


Figure 14
PRIOR ART



1500

Figure 15

ACTION	Op[2] - NoByte M				Op[0] - Write		WriteOp		ReadRegOp		WriteRegOp		WregB
	Op[3] - Bcst	Op[1] - Reg	ReadOp	RegOp	Rreg	Wreg							
ILLEGAL	0	0	0	0		X							
MEMORY WRITE DIRECTED BYTE MASK	0	0	0	1									
ILLEGAL	0	0	1	0									
ILLEGAL	0	0	1	1									
MEMORY READ DIRECTED	0	1	0	0	X								
MEMORY WRITE DIRECTED	0	1	0	1		X							
REGISTER READ DIRECTED	0	1	1	0	X		X	X	X				
REGISTER WRITE DIRECTED	0	1	1	1		X	X			X	X		
ILLEGAL	1	0	0	0									
MEMORY WRITE BROADCAST BYTE MASK	1	0	0	1		X							
ILLEGAL	1	0	1	0									
ILLEGAL	1	0	1	1									
ILLEGAL	1	1	0	0									
MEMORY WRITE BROADCAST	1	1	0	1		X							
ILLEGAL	1	1	1	0									
REGISTER WRITE BROADCAST	1	1	1	1		X	X			X		X	

Figure 16A

ACTION												
	MemOp	ReadMemOp	ReadMemDirectedOp	WriteMemOp	WriteMemNoByteMaskOp	WriteMemNoByteMaskDirectedOp	WriteMemNoByteMaskBroadcastOp	WriteMemByteMaskOp	WriteMemByteMaskDirectedOp	WriteMemByteMaskBroadcastOp	RsrvOp	BroadcastOp
ILLEGAL											X	
MEMORY WRITE DIRECTED BYTE MASK	X			X				X	X			
ILLEGAL											X	
ILLEGAL											X	
MEMORY READ DIRECTED	X	X	X									
MEMORY WRITE DIRECTED	X			X	X	X						
REGISTER READ DIRECTED												
REGISTER WRITE DIRECTED												
ILLEGAL											X	
MEMORY WRITE BROADCAST BYTE MASK	X			X				X		X		X
ILLEGAL											X	
ILLEGAL											X	
ILLEGAL											X	
MEMORY WRITE BROADCAST	X			X	X		X					X
ILLEGAL											X	
REGISTER WRITE BROADCAST												X

Figure 16B

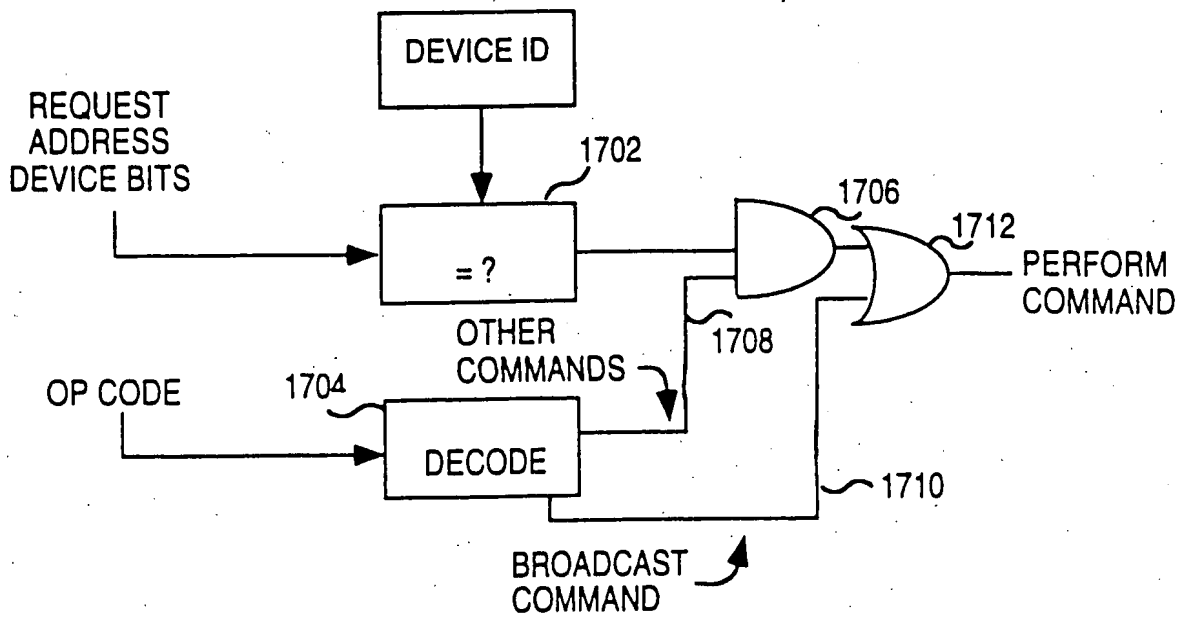


Figure 17

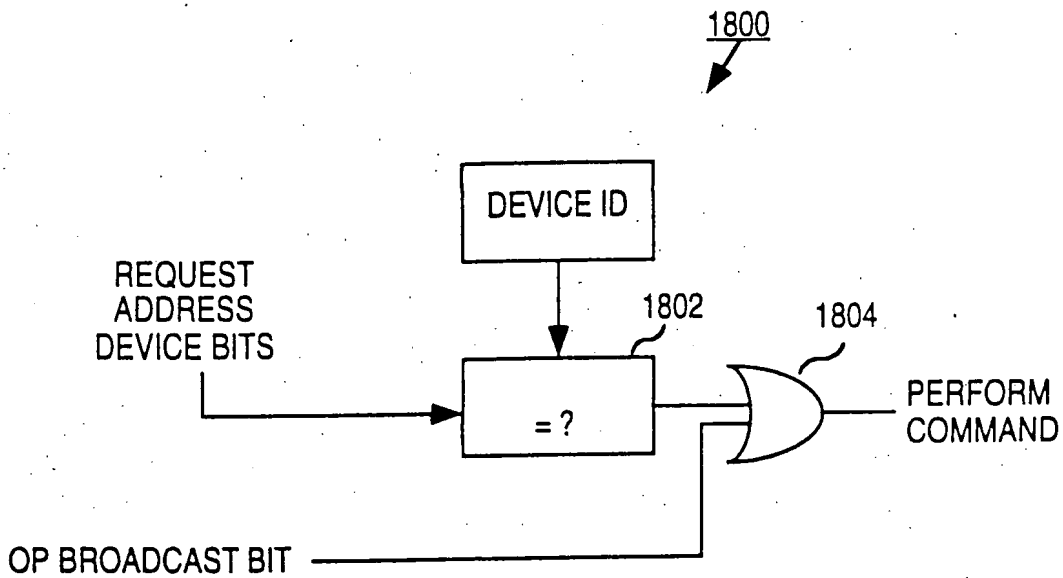


Figure 18

OPEN	CLOSE	PREVIOUS BANK STATE	NEW BANK STATE	ACTION
0	0	CLOSED	CLOSED	ILLEGAL
0	1	CLOSED	CLOSED	NO ACTION
1	0	CLOSED	OPEN	SENSE-CARD
1	1	CLOSED	CLOSED	SENSE-COMMAND-PRECHARGE
0	0	OPEN	OPEN	COMMAND
0	1	OPEN	CLOSED	COMMAND-PRECHARGE
1	0	OPEN	OPEN	PRECHARGE-SENSE-COMMAND
1	1	OPEN	CLOSED	PRECHARGE-SENSE-COMMAND-PRECHARGE

Figure 19

09870322.052904
T06250.22E02B6D

FIG. 20A

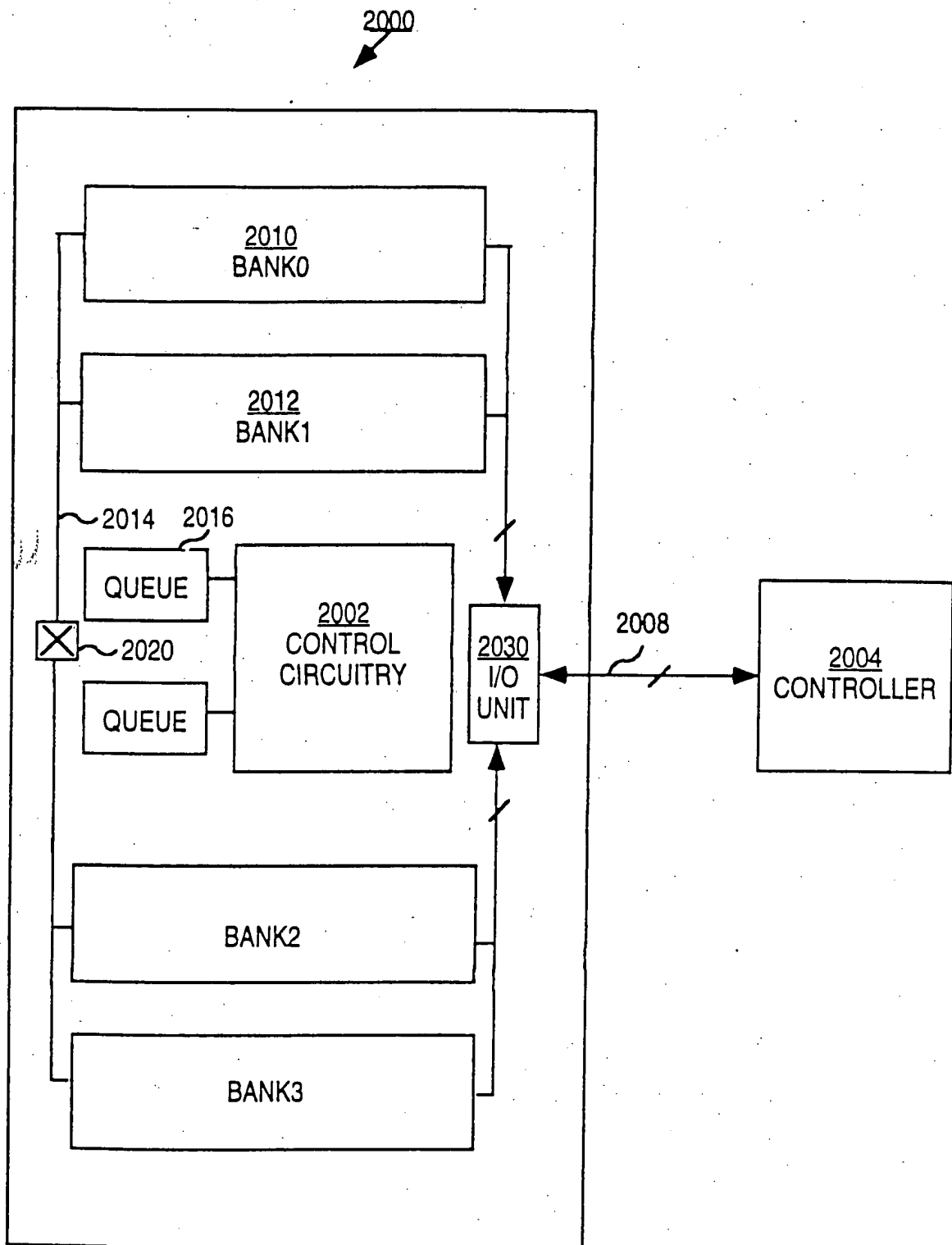


Figure 20A

FIG. 20B

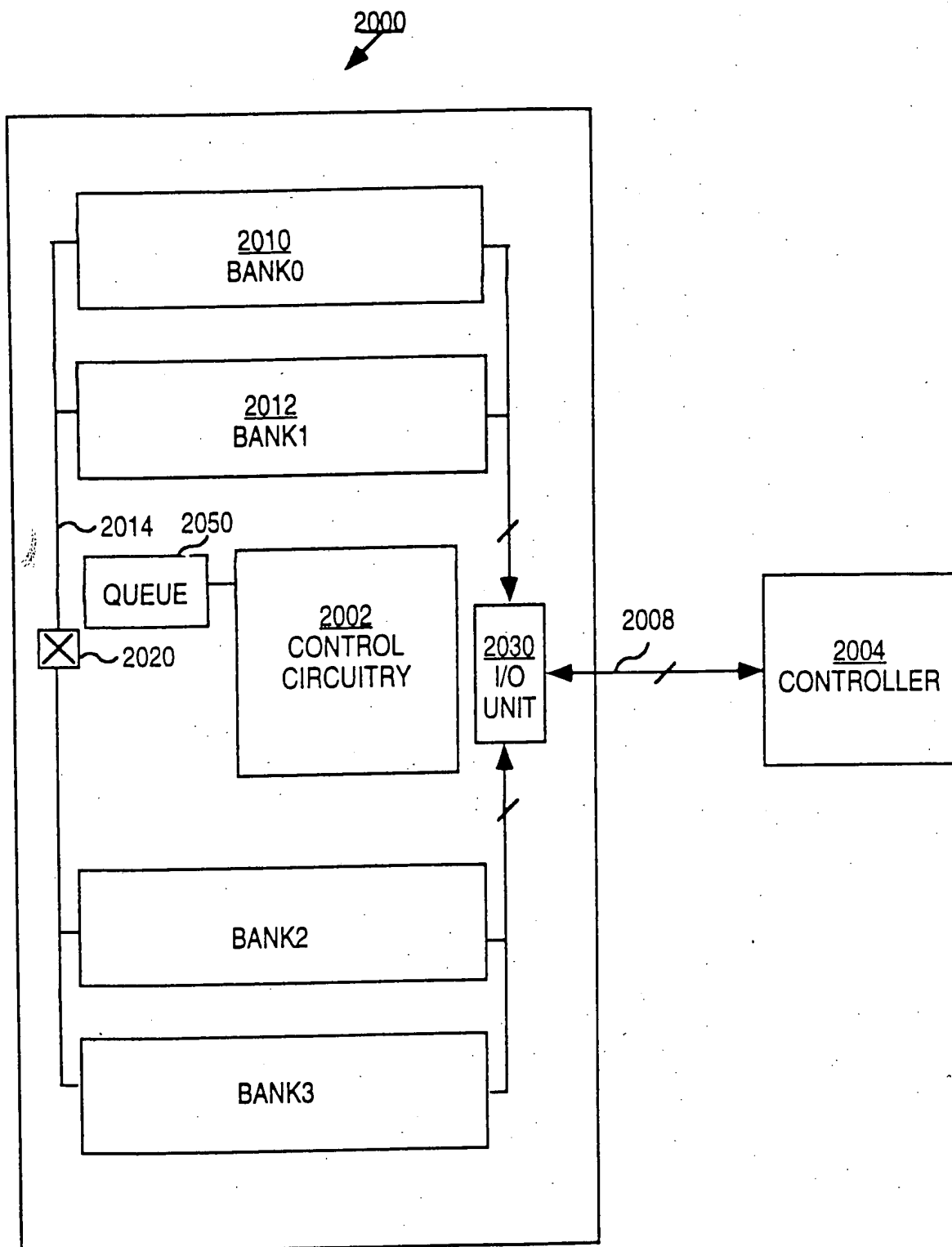


Figure 20B

07-01

CURRENT

OPEN	CLOSE	PREVIOUS BANK STATE	NEW BANK STATE	ACTION
0	0	CLOSED	CLOSED	ILLEGAL
0	1	CLOSED	CLOSED	NO ACTION
1	0	CLOSED	OPEN	SENSE-CARD
1	1	CLOSED	CLOSED	SENSE-COMMAND-PRECHARGE
0	0	OPEN	OPEN	COMMAND
0	1	OPEN	CLOSED	COMMAND-PRECHARGE
1	0	OPEN	OPEN	PRECHARGE-SENSE-COMMAND
1	1	OPEN	CLOSED	PRECHARGE-SENSE-COMMAND-PRECHARGE

106250-22502360

Figure 19

TOP SECRET 2000/860

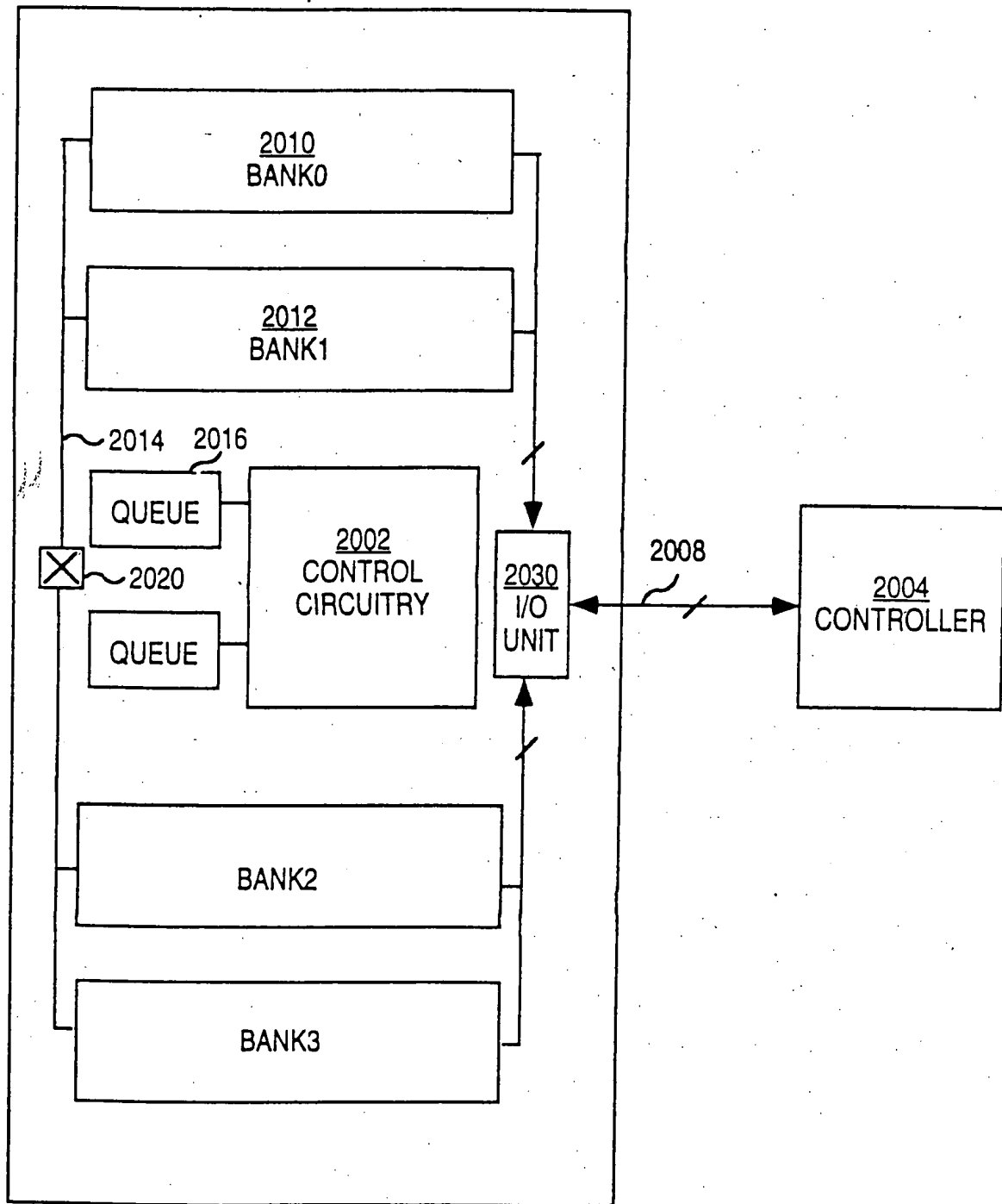


Figure 20A

FIG. 20B

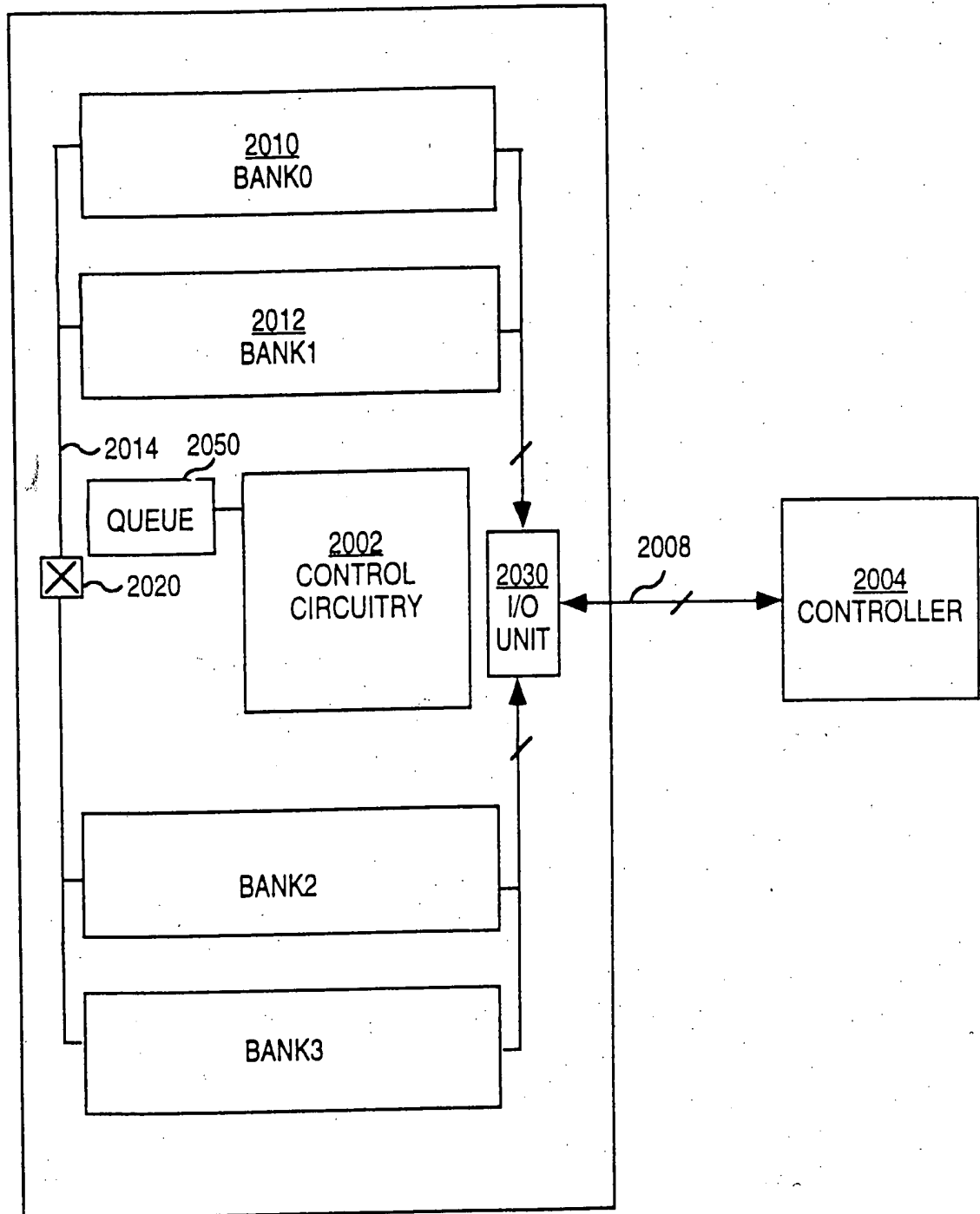


Figure 20B